LDR2 LDR2-LA LDR-LA1

SQR-TP HLDR-IP

> HPR LFR LKR

FPR FPQ2

TH

LN/LN-HK LNSD LND2 HLND LT

LNV/HLDN LNIS-FN

Macro Lens

Ultraviolet Line Lights LNSP-UV-FN series

Refer to our website for product details.

CCS LNSP-UV-FN

Use a search engine



vour smartphone or cell phone

UV Line Lights that use high-output UV-LEDs



Applications

Inspection for detecting seal material through fluorescent excitation, inspections using differences in spectral reflectivity, and inspections using differences in scattering rates, etc.

Narrow type that can achieve convergent illumination

By using a rod lens, the Light Unit concentrates illumination in a narrow range. There is little loss of radiation output, allowing for convergent illumination.

Characteristics of the narrow type











Fluorescent observation is difficult with white light.



Fluorescent observation for the invisible code is possible.

Wide type that can achieve diffused illumination

The illuminated range is wide, allowing for a broad range to be illuminated.

Characteristics of the wide type



(LDL-74x27UV365) Camera output varies based on the camera's



Imaging Imaging of foreign material example on paper Workpiece White paper (Tissue)



Fluorescent observation is difficult with white light.



Fluorescent observation for foreign material, such as dust, is possible.

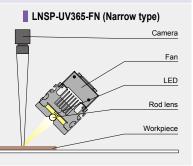
Custom orders

Please contact your CCS sales representative.



Example configuration

By using a rod lens, the Light Unit concentrates illumination in a narrow range. High output UV Line Light perfect for UV excitation.



We have various materials.

3D CAD

Product Fliers

http://www.ccs-grp.com/dl/

Diffused

LNIS LNIS LNIS-FN

Macro Lens

Imaging example : Imaging to detect contact lenses inside packaging

PSCC Series Control

Unit Product Page

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Examples of Custom

Ordered Products

► P.223



Options

▶ P.215

Description	Detection inspection
Workpiece	Contact lenses
Before the proposal	LED visible light lighting
After the proposal	LNSP-300UV365-FNNR
Result	Fluorescent excitation via ultraviolet lighting

Technical Guide

▶ P.229

Regulations, Etc.

► P.241





Contact lenses

LED visible light lighting



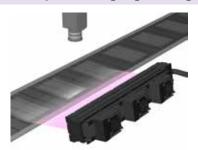
With visible light lighting, it is difficult to detect the contact lenses.

LNSP-300UV365-FNNR



Depending on the type of contact lens, they absorb the ultraviolet wavelength, allowing for the inside of the pack to be imaged.

Imaging example: Imaging of alignment of clear film



Description	Visual inspection
Workpiece	Clear film
Before the proposal	LED visible light lighting
After the proposal	LNSP-300UV365-FN
Result	Fluorescent excitation via ultraviolet lighting

Workpiece image



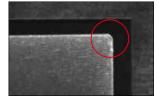
Clear plate (bottom) and film (top)

LED visible light lighting



With visible light lighting, it is difficult to form an image of the clear film.

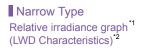
LNSP-300UV365-FN



Only the clear film causes scattering, emphasizing the edge.

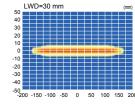
*The graph included is for reference only and does not guarantee the quality of this product.

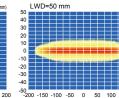
Data: Relative irradiance graph/Uniformity graph (Representative example)



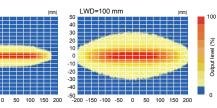
*1: Irradiance on the optical axis
*2: Illuminating distance from the Light Unit to the workpiece

90 80 70 60 50 40 30 20 Relative irradiance (%) LWD (mm)





Uniformity graph (Relative irradiance)



You can inquire using our website.

Requests for Light Unit Selection

Requests for Loar

Inquire on our website here. http://www.ccs-grp.com/contact/ LDR2

LDR2-LA LDR-LA1 SQR-TP HLDR-IP HPR2 HPR

PFBR LNSF

CU-LNSP LNSP-FN LN/LN-HK

LNSD LND2

Diffused Lighting HLND LT LNV/HLDN

LNIS LNIS-FN Oplide Lighting

Macro Lens

Refer to our website for product details. CCS LNSP-UV-FN

▶ Search



*The graph included is for reference only and does not guarantee the quality of this product.

Data: Relative irradiance graph/Uniformity graph (Representative example)

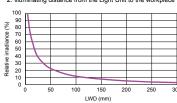
Wide Type Relative irradiance graph*1 (LWD Characteristics)*2

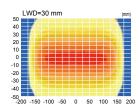
Uniformity graph (Relative irradiance)

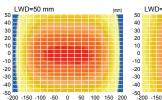
Use a search engine.

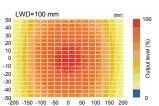
*1: Irradiance on the optical axis

*2: Illuminating distance from the Light Unit to the workpiece









Lineup

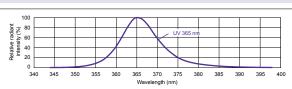
* End of the model name: -FN: Narrow type, -FNNR: Wide type

Model name	LED color	Power consumption	Peak wavelength	Options	Recommended Control Unit	Weight
LNSP-100UV365-FN		31 W		Ultraviolet cutting filter Ultraviolet transmission filter	PSCC	1,000 g
LNSP-200UV365-FN	Ultraviolet	61 W	- 365 nm			1,400 g
LNSP-300UV365-FN		92 W				1,800 g
LNSP-100UV365-FNNR		31 W				800 g
LNSP-200UV365-FNNR		61 W				1,100 g
LNSP-300UV365-FNNR		92 W				1,400 g

PSCC Series Products Page ▶

LED properties





Be sure to read the "Instruction Guide" included with the product before use and observe cautionary information. The data included is for reference only and does not guarantee the quality of this product.

Cautionary information regarding UV products

- Do not expose your eyes or skin to direct UV irradiation.
- When using an UV illumination, be sure to wear UV blocking eye wear and avoid looking at irradiating parts (emitting parts).
- Do not turn on UV-LED irradiation parts (emitting parts) if they are facing someone's eyes
- Wear long sleeves and gloves to protect your skin from UV irradiation.
- Carefully inform all persons in the area around this product of the dangers of UV-LED.



(E.g.) UV blocking eye wear

Options



L42 series

L42-25

L42-27

142-30

L42-40

Blocks light with a wavelength of 420 nm or lower, transmits light with a longer

Size

M25.5 P0.5

M27.0 P0.5

M30.5 P0.5



Transmits light with wavelength range of approx. 280 nm to 380 nm, centered around 340 nm.

Ultraviolet transmission filter U340 series

Model name	Size	
U340-25	M25.5 P0.5	
U340-27	M27.0 P0.5	
U340-30	M30.5 P0.5	
U340-40	M40.5 P0.5	
U340-46	M46.0 P0.75	

M40.5 P0.5 L42-46 M46.0 P0.75 P.215

P.215

We have various materials.

3D CAD

Product Fliers

Data Sheets

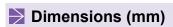
Download here http://www.ccs-grp.com/dl/

Diffused Lighting HIND

LNV/HLDN

LNIS LNIS LNIS-FN

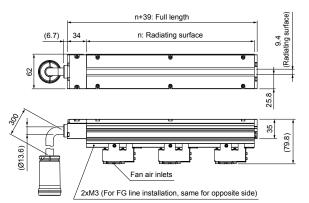
Macro Lens

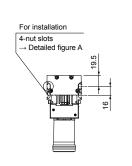


Options

▶ P.215

LNSP-□□□UV365-FN (Narrow type)





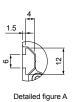
Technical Guide

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PSCC Series Control

Unit Product Page

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Regulations, Etc.

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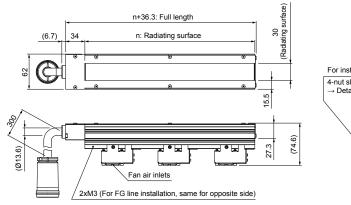
Model name	n	Number of cooling fans
LNSP-100UV365-FN	100	1
LNSP-200UV365-FN	200	2
LNSP-300UV365-FN	300	3

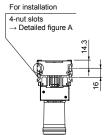
Examples of Custom

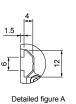
Ordered Products

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LNSP-□□□UV365-FNNR (Wide type)





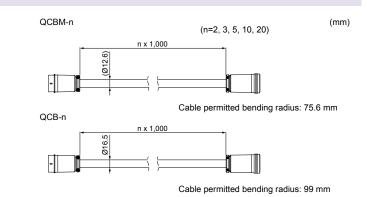


Model name	n	Number of cooling fans
LNSP-100UV365-FNNR	100	1
LNSP-200UV365-FNNR	200	2
LNSP-300UV365-FNNR	300	3

Extension Cables

Model name	Cable length	Weight	Applicable Control Unit
QCBM-2	2 m	800 g	
QCBM-3	3 m	1,000 g	
QCBM-5	5 m	1,500 g	PSCC-30048
QCBM-10	10 m	2,700 g	
QCBM-20	20 m	5,000 g	
QCB-2	2 m	1,100 g	
QCB-3	3 m	1,500 g	
QCB-5	5 m	2,400 g	PSCC-60048
QCB-10	10 m	4,600 g	
QCB-20	20 m	8,900 g	

Necessary when connecting the Light Unit to the recommended Control Unit, the PSCC series.



You can inquire using our website.

Requests for Loan Products

Inquire on our website here. http://www.ccs-grp.com/contact/